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Earth. Publish'd some Years since by the Learned Dr. Burnet. Written by John Beaumont, jun. Gent. in 4to. 1693. Lond. 3. Epistola ad Regiam Societatem Londinensem qua de nuperis Terræ-motibus differitur, &c. in 4to. Lond. 1693. 4. Traité des moyens de rendre les Rivières navigables, &c. a Paris, in 8°. 1693.

I. The Extract of a Letter from Lisle in Flanders, May 25. N.S. 1686. giving an Account of an unusual Storm of Hail which fell there.

— **T**Here fell in this City Hail of so great a bigness, that the least exceeded Pigeons Eggs. Several of them were weighed, and were some a quarter of a Pound, others of a Pound Weight and more. One among the rest was observed to contain a dark brown matter in the middle thereof; and being thrown into the Fire, it gave a very great Report. Others were transparent, which melted before the Fire immediately. This Storm passed over the Cittadel and Town, and left not a whole Glas in the Windows on the windward side. The Trees were broken, and some beat down, and the Partridges and Hares killed in abundance.

II. Observatio Solaris Eclipsis habita Die 12. Julii, 1684. Bononiæ, à Cl. V. Dono. Dominico Gulielmino.

Defumebant Solis à Vertice Distantias D. D. Jo. Ludovicus Donellus & Nicolaus Ignatius Joanettus; Phasibus determinandis tres aderam, D.D. Jo. Galeatius Manzius, Hercules Vanottus & Ego. Observationes scribebat D. Gregorius Malisardus; horas vero in horologio notabat D. Bartolomeus Ferrarius.

Horæ

Horæ horologii
automati p. m.
Diei 12.

Horæ erutæ
ex distanti-
is observatis
centri solis à
Vertice.

Distantiæ
Centri so-
lis à Verti-
ce.

Phases.

Hor. 3. 20. 00.
3. 34.

Eclipsis apparente so-
le inter nubes. Quan-
titas obscuracionis. *dig.*
2. 30.

3. 37. 30.				<i>dig.</i> 3.
3. 48. 14.	3. 47. 47.	gr. 51. 31.		<i>dig.</i> 4. 20. dubia ubiq;
3. 52. 00.				<i>dig.</i> 5. optima.
3. 57. 00.	3. 56. 2.	gr. 52. 58.		<i>dig.</i> 5. 30.
4. 2. 00.	4. 2. 29.	gr. 54. 10.		<i>dig.</i> 6.
4. 4. 45.	4. 5. 59.	gr. 54. 44.		<i>dig.</i> 6. 30. optima.
4. 9. 20.	4. 9. 1.	gr. 55. 17.		<i>dig.</i> 7. exacta.
4. 14. 40.	4. 15. 43.	gr. 56. 28.		<i>dig.</i> 7.
4. 19. 00.				<i>dig.</i> 7. 20. dubia.
4. 27. 44.	4. 28. 42.	gr. 58. 39.		<i>dig.</i> 7. 20.
4. 32. 35.	4. 34. 20.			<i>dig.</i> 7. satis exacta.
4. 34. 20.				<i>dig.</i> 6. 45.
4. 44. 30.				<i>dig.</i> 6. 30.
4. 47. 15.				<i>dig.</i> 6. 30.
4. 51. 30.				<i>dig.</i> 6. optima.
4. 54. 38.	4. 53. 53.	gr. 63. 16.		<i>dig.</i> 5. 30. exacta.
4. 58. 2.	4. 57. 38.	gr. 63. 56.		<i>dig.</i> 5. exacta.
5. 1. 55.	5. 1. 2.	gr. 64. 32.		<i>dig.</i> 4. 30. satis exacta.
5. 4. 40.	5. 5. 28.	gr. 65. 19.		<i>dig.</i> 4. diligens ubiq;
5. 7. 0.	5. 6. 23.	gr. 65. 28.		<i>dig.</i> 3. 30. exacta.
5. 10. 30.	5. 9. 9.	gr. 65. 58.		<i>dig.</i> 3. exacta.
5. 12. 35.	5. 13. 28.	gr. 66. 43.		<i>dig.</i> 2. 30. satis exacta.
5. 16. 15.	5. 16. 14.	gr. 67. 13.		<i>dig.</i> 2. exacta.
5. 19. 50.	5. 20. 24.	gr. 67. 57.		<i>dig.</i> 1. 30. exacta.
5. 22. 30.	5. 23. 21.	gr. 68. 28.		<i>dig.</i> 1. exacta.
5. 25. 0.	5. 25. 14.	gr. 68. 48.		<i>dig.</i> 0. 30. diligens.
5. 27. 40.	5. 28. 7.	gr. 69. 18.		<i>dig.</i> 0. accuratissima.

Circa

Circa observationes ab initio Eclipsis usque ad medium circiter, eas quidem præter unam, aut alteram, omnis erroris expertes esse non ausim affirmare ; intercurrentibus enim identidem nubibus Solis species nonnihil minor & pallidior reddebatur, unde non omnimoda certitudo promitti potest. A medio autem Eclipsis ad finem usque cum nullis nubibus Sol impediretur, observationes certiores sunt & diligentius habitæ.

Notabile fuit ; cum quantitas Eclipsis fuerit dig. 7. 20. quod non modicam aëris offuscationem debebat inducere, ut aliàs multoties in consimilibus defectibus observatum est ; nihilominus tamen vix sensibilibus consuetum in sole libero aëris statum mutatum fuisse ; unde plurimis solem non respicientibus orta suspicio, aut solem non defecisse, aut minimum quidem ; cujus quidem rei non alia mihi videtur assignanda causa, quàm ingens vis nubium à Sole maxime illuminatarum, quæ non multum ab eo distabant ; ab his enim solis radius per reflexionem, & refractionem multiplicatus certè intensior redditus deficientem aliundè splendorem potuit compensare : sic aliquando videmus præsertim occidente Sole nubes adeo illuminatas esse, ut post ejus etiam occasum, vividissimam lucem effundant, quinimo etiam umbras non semel projiciant.